

1 **WHAT IS CLAIMED IS:**

2 1. A number lock device, comprising a lock housing, a lock core, and

3 a cover, wherein:

4 the lock housing has a first end having an inside formed with a
5 receiving chamber, the lock housing has two opposite faces each formed with a
6 plurality of through holes and has a side formed with a plurality of windows;

7 the lock core is mounted in the lock housing and includes a plurality
8 of number rings each rotatably mounted in a respective one of the through
9 holes of the lock housing, a first locking ring and a plurality of second locking
10 rings each mounted in a respective one of the number rings, and a lock core rod
11 having a first end provided with a catch plate and a second end extended
12 through a spring and each of the first locking ring and the second locking rings;

13 the number lock device further comprises a movable member, a
14 driving member, a locking plate, and a locking pin each mounted in the
15 receiving chamber of the lock housing and located between the lock core and
16 the cover;

17 the movable member has a first side formed with a rectangular
18 insertion recess for insertion of the catch plate of the lock core rod and a
19 second side formed with four triangular first teeth and four first engaging
20 grooves each located between any two adjacent first teeth;

21 the driving member is engaged with the movable member and has a
22 first side formed with four triangular second teeth each mounted in a respective

1 one of the first engaging grooves of the movable member and four second
2 engaging grooves each located between any two adjacent second teeth,
3 wherein each of the first teeth of the movable member is mounted in a
4 respective one of the second engaging grooves of the driving member, the
5 driving member has a second side formed with an insertion groove;

6 the locking plate has a first end inserted into the insertion groove of
7 the driving member and formed with a mounting hole, and a second end
8 formed with two locking legs extended through the cover and a channel
9 located between the two locking legs and communicating with the mounting
10 hole; and

11 the locking pin is pivotally mounted in the channel of the locking
12 plate and has a first end mounted in the mounting hole of the locking plate and
13 locked on the lock housing and has a second end formed with a locking block
14 extended outward from the channel of the locking plate and the cover.

15 2. The number lock device in accordance with claim 1, wherein the
16 receiving chamber of the lock housing has a wall formed with two opposite
17 elongated guide grooves, and the movable member has a periphery formed
18 with two opposite ears each movably mounted in a respective one of the two
19 guide grooves of the receiving chamber of the lock housing, so that the
20 movable member is movably mounted in the receiving chamber of the lock
21 housing without rotation.

1 3. The number lock device in accordance with claim 1, wherein the
2 receiving chamber of the lock housing has a wall formed with two opposite
3 locking grooves, and the first end of the locking pin has two sides each formed
4 with a wing plate extended outward from a wall of the mounting hole of the
5 locking plate and locked in a respective one of the two locking grooves of the
6 receiving chamber of the lock housing, so that the locking pin is moved in
7 concert with the lock housing.

8 4. The number lock device in accordance with claim 1, wherein the
9 lock core further includes a reed located in the lock housing and mounted on
10 the number rings.

11 5. The number lock device in accordance with claim 1, wherein the
12 spring has a first end rested on the catch plate of the lock core rod and a second
13 end rested on one of the second locking rings.

14 6. The number lock device in accordance with claim 1, wherein each
15 of the first teeth of the movable member has two sides formed with two
16 symmetrically arranged first inclined face.

17 7. The number lock device in accordance with claim 1, wherein each
18 of the second teeth of the driving member has two sides formed with two
19 symmetrically arranged second inclined face.

20 8. The number lock device in accordance with claim 1, wherein the
21 lock housing includes a first shell and a second shell combined with each other.

1 9. The number lock device in accordance with claim 1, wherein the
2 first end of the lock housing is formed with a pivot sleeve.

3 10. The number lock device in accordance with claim 9, further
4 comprising a cable having a first end formed with a first loop mounted on a
5 fixing ear of a mounting ring which is mounted on the pivot sleeve of the lock
6 housing and having a second end formed with a second loop.

7 11. The number lock device in accordance with claim 10, wherein the
8 cover is mounted on the pivot sleeve of the lock housing and is rested on the
9 mounting ring to position the lock core in the lock housing.

10 12. The number lock device in accordance with claim 9, wherein the
11 cover is fixed on the pivot sleeve of the lock housing by a pin.

12 13. The number lock device in accordance with claim 3, wherein the
13 cover has an inside formed with two protruding press blocks to press the wing
14 plate of the locking pin to position the wing plate of the locking pin in a
15 respective one of the two locking grooves of the receiving chamber of the lock
16 housing.

17 14. The number lock device in accordance with claim 1, wherein the
18 lock housing has a second end provided with a movable push button including
19 a slide slidably mounted in the receiving hole of the lock housing, a push plate
20 mounted on a first side of the slide and protruded outward from the receiving
21 hole of the lock housing, and a guide plate mounted on a second side of the
22 slide and extended into the receiving hole of the lock housing.

1 15. The number lock device in accordance with claim 14, wherein
2 the second end of the lock housing is formed with an elongated receiving hole
3 for receiving the push button.

4 16. The number lock device in accordance with claim 14, wherein
5 the guide plate of the push button is provided with a protruding urging portion,
6 and the first locking ring has an end formed with a lug rested on the urging
7 portion of the guide plate of the push button.

8 17. The number lock device in accordance with claim 16, wherein
9 the urging portion of the guide plate of the push button has an end formed with
10 an oblique guide face, and the lug of the first locking ring is rested on the guide
11 face of the urging portion of the guide plate of the push button.